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MAY 18 1972

NEW MEXICO CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

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Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-20-72		NOV 1 1972	
Company Dorchester Exploration, Inc.				Connection None		O. C. C.		
Pool Anderson (Penn)				Formation Morrow		WARTESIA, OFFICE 0		
Completion Date 3-30-72		Total Depth 11,060		Plug Back TD 11,025		Elevation 3662 Gr		Farm or Lease Name Anderson <i>field</i>
Csg. Size 5 1/2"	Wt. 17.0 lb	d 13.5"	Set At 11,059	Perforations: From 10,844 To 10,880		Well No. 1		
Tub. Size 2 3/8 EUE	Wt. 4.71	d 1.995	Set At 10,560	Perforations: From To		Unit 0	Sec. 7	Twp. Rge. 17S 30E
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 10,560		County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 156° @ 10,862		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State New Mexico
L 10,862	H 10,862	G _g .640	% CO ₂ 0	% N ₂ 0	% H ₂ S 0	Prover X	Meter Run	Taps

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	2	X	8/64	1637		69					1 Hr
1.	2	X	14/64	883		70					1 Hr
2.	2	X	20/64	278		77					1 Hr
3.	2	X	28/64	115		79					1 Hr
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	.2648		1650.2	.9915	1.250	1.159	628
2	.8393		896.2	.9905	1.250	1.089	1014
3	6.473		291.2	.9840	1.250	1.027	1524
4	13.00		128.2	.9822	1.250	1.011	2069
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>not measured</u> Mcf/bbl.
1.	2.46	529	1.42	.745	A.P.I. Gravity of Liquid Hydrocarbons <u>not measured</u> Deg.
2.	1.34	530	1.42	.843	Specific Gravity Separator Gas <u>.640</u> XXXXXXXXXX
3.	.43	537	1.44	.949	Specific Gravity Flowing Fluid <u>XXXXX</u>
4.	.19	539	1.45	.979	Critical Pressure <u>670</u> P.S.I.A. P.S.I.A.
5.					Critical Temperature <u>372</u> °R °R

P _c 2304.2 P _c ² 5309		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{5309}{5205}$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.02037$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	
1		1780.2	3169	2140	
2		1018.2	1037	4272	
3		411.2	169	5140	
4		323.2	104	5205	
5					

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2111$

Absolute Open Flow 2111 Mcfd @ 15.025 Angle of Slope 45° Slope, n 1.00

Remarks:

Approved By Commission	Conducted By: W. M. Cates	Calculated By: H. L. Hagler	Checked By:
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